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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/13, C07K 16/42, C12N 5/10, 5/20, 15/86, C07K 19/00, A61K 38/19, 38/20, 39/395, G01N 33/68, 33/574, 33/577, C12Q 1/68		A2	(11) International Publication Number: WO 97/22699 (43) International Publication Date: 26 June 1997 (26.06.97)
(21) International Application Number: PCT/US96/20757 (22) International Filing Date: 19 December 1996 (19.12.96) (30) Priority Data: 08/575,762 20 December 1995 (20.12.95) US 08/591,965 26 January 1996 (26.01.96) US Not furnished 13 December 1996 (13.12.96) US (60) Parent Application or Grant (63) Related by Continuation US Not furnished (CIP) Filed on 13 December 1996 (13.12.96) (71) Applicant (for all designated States except US): UNIVERSITY OF KENTUCKY [US/US]; Intellectual Property Development, A144 ASTeCC Building, Lexington, KY 40506-0286 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): CHATTERJEE, Malaya [US/US]; 2400 The Woods Lane, Lexington, KY 40502 (US). FOON, Kenneth, A. [US/US]; 800 Rose Street,		Lexington, KY 40506 (US). CHATTERJEE, Sunil, K. [US/US]; 2400 The Woods Lane, Lexington, KY 40502 (US). (74) Agents: POLIZZI, Catherine, M. et al.; Morrison & Foerster L.L.P., 755 Page Mill Road, Palo Alto, CA 94304-1018 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>	

(54) Title: MURINE MONOCLONAL ANTI-IDIOTYPE ANTIBODY 11D10 AN METHODS OF USE THEREOF

(57) Abstract

The present invention provides a monoclonal anti-idiotypic antibody 11D10 that elicits an immune response against a specific epitope of a high molecular weight mucin of human milk fat globule (HMFG) and a hybridoma that produces 11D10. The hybridoma that produces 11D10 was selected by specific procedures. 11D10 induces an immunological response to HMFG in mice, rabbits, monkeys and patients with advanced HMFG-associated tumors. This invention provides compositions derived from polynucleotide sequences encoding the variable light and/or variable heavy regions of monoclonal anti-idiotypic antibody 11D10, as well as polypeptides encoded thereby. The invention also provides compositions which can be used in the detection or treatment of HMFG-associated tumors.